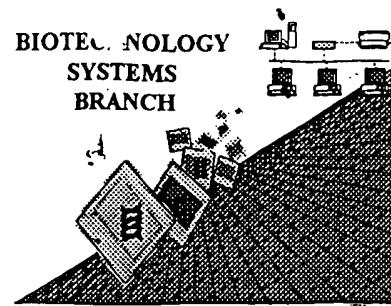


## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/996,128

Source: OIPE

Date Processed by STIC: 12/6/01

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be downloaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

## Raw Sequence Listing Error Summary

ERROR DETECTED    SUGGESTED CORRECTION    SERIAL NUMBER: 09/996,128

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleic  
     Wrapped Aminos    The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length    The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino  
    Numbering    The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.

4  Non-ASCII    The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length    Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0  
    "bug"    A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences  
    (OLD RULES)    Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
    (NEW RULES)    Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's  
    (NEW RULES)    Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213>  
    Response    Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11  Use of <220>    Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
    "bug"    Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001

TIME: 11:42:50

Input Set : A:\sequence listing.txt  
 Output Set: N:\CRF3\12062001\I996128.raw

Does Not Comply  
 Corrected Diskette Needed

Errors on pp. 1,3

3 <110> APPLICANT: Houghton, Alan  
 4 Bergman, Phillip  
 5 Wolchok, Jedd  
 7 <120> TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using  
 Same  
 9 <130> FILE REFERENCE: MSK.P-026-3  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/996,128  
 C--> 11 <141> CURRENT FILING DATE: 2001-11-27  
 11 <150> PRIOR APPLICATION NUMBER: US 09/627,694  
 12 <151> PRIOR FILING DATE: 2000-07-28  
 14 <150> PRIOR APPLICATION NUMBER: US 09/308,697  
 15 <151> PRIOR FILING DATE: 1999-05-21  
 17 <150> PRIOR APPLICATION NUMBER: PCT/US97/22669  
 18 <151> PRIOR FILING DATE: 1997-12-10  
 20 <150> PRIOR APPLICATION NUMBER: US 60/036,419  
 21 <151> PRIOR FILING DATE: 1997-02-18  
 23 <150> PRIOR APPLICATION NUMBER: US 60/032,535  
 24 <151> PRIOR FILING DATE: 1996-12-10  
 26 <150> PRIOR APPLICATION NUMBER: US 60/180,651  
 27 <151> PRIOR FILING DATE: 2000-01-26  
 29 <160> NUMBER OF SEQ ID NOS: 2  
 31 <170> SOFTWARE: PatentIn version 3.0  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 6408  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: synthetic construct  
 38 <400> SEQUENCE: 1  
 invalid response, see error summary sheet  
 item 10
 

39	attctgcaga tatccagcac agtggcggcc gctcgagtct agagggcccg tttaaacccg	60
41	ctgatcagcc tcgactgtgc ctcttagttt ccagccatct gttgtttgcc cctccccgt	120
43	gccttccttg acccttggaaag gtgccactcc cactgtcctt tcctaataaa atgagggaaat	180
45	tgcatcgcat tgtctgagta ggtgtcattt tattctgggg ggtgggggtgg ggcaggacag	240
47	caagggggag gattggaaag acaatagcag gcatgggggg gatgcagggg gggggggggcg	300
49	ctgaggtctg cctcgtaag aagggtttgc tgactcatac caggcctgaa tcgccccatc	360
51	atccagccag aaagtgggg agccacgggt gatgagagct ttgtttagg tggaccagtt	420
53	ggtgattttg aactttgtct ttgccacggg acggctctgc ttgtcgggaa gatgcgtgat	480
55	ctgatccttc aactcagcaa aagttcgatt tattcaacaa agccgcgcgc ccgtcaagtc	540
57	agcgtaatgc tctgccagtg ttacaaccaa ttaaccaatt ctgatttagaa aaactcatcg	600
59	agcatcaaat gaaactgcaa ttatttcata tcaggattat caataccata tttttgaaaa	660
61	agccgtttct gtaatgaagg agaaaactca ccgaggcagt tccataggat ggcaagatcc	720
63	tggatcggt ctgcattcc gactcggtca acatcaatac aacctattaa ttcccctcg	780
65	tcaaaaataa ggttatcaag tgagaaatca ccatgagtga cgactgaatc cggtgagaat	840
67	ggcaaaagct tatgcatttc ttccagact tggtaacag gccagccatt acgctcgta	900
69	tcaaaaatcac tcgcatcaac caaacggta ttcatcggt attgcgcctg agcgagacga	960
71	aatacgcgtat cgctgttaaa aggacaatta caaacaggaa tcgaatgcaa cggcgccagg	1020
73	aacactgcca ggcgtatcaac aatattttca cctgaatcag gatattttc taatacctgg	1080
75	aatgctgttt tcccgggat cgcaatgggt agtaaccatg catcatcagg agtacggata	1140
77	aaatgcttga tggtcgaaag agcataaaat tccgtcagcc agttagtct gaccatctca	1200
79	tctgttaacat cattggcaac gctaccttg ccatgttca gaaacaactc tggcgcatcg	1260

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001

TIME: 11:42:50

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\12062001\I996128.raw

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83	ttatacccat ataaatcagc atccatgttg gaatttaatc	1380
85	tgccgttcaa tatggctcat aacacccctt gtattactgt ttatgtaa	1440
87	atgttcatg atgatatatatt ttatcttg gcaatgtaa	1500
89	acgtggctt cccccccccc cctgcagcgt ttcttcctt tccccacccc accccccaag	1560
91	ttcgggtgaa gccccaggc tcgcagccaa cgtcggggcg gcaggccctg ccatacgctc	1620
93	aggtaactca tatatactt agattgattt aaaacttcat tttaattta aaaggatcta	1680
95	ggtaagatc cttttgata atctcatgac caaaatccct taacgtgagt ttgttcca	1740
97	ctgagcgtca gaccccgtag aaaagatcaa aggatctt tgagatcctt ttgttgcg	1800
99	cgtaatctgc tgcttgcaaa caaaaaaacc accgcgtacca gcgggtggtt gtgttccgga	1860
101	tcaagagcta ccaactctt ttccgaaggt aactggcttc agcagagcgc agatccaaa	1920
103	tactgttctt ctatgttagc ctagttagg ccaccactc aagaactctg tagcaccgccc	1980
105	tacataccctc gctctgctaa tcctgttacc agtggctgtc gccagtggcg ataagtcgtg	2040
107	tcttaccggg ttggactcaa gacgatagtt accggataag gcgcagccgt cgggctgaac	2100
109	gggggggttcg tgcacacagc ccagcttggc gcgaacgacc tacaccgaac tgagatacct	2160
111	acagcgttag ctatgagaaa ggcacacgtc tcccaagg agaaaggcgg acaggtatcc	2220
113	ggtaagcggc agggcgtggaa caggagagcg cacgagggag ctccagggg gaaacgcctg	2280
115	gtatctttat agtcctgtcg gtttcgcctt cctctgactt gagcgtcgat ttgttgcgt	2340
117	ctcgtcaggg gggcggagcc tatggaaaaa cgccagcaac gcggccttt tacgttccct	2400
119	ggcctttgc tggcccttttgc ctcacatgtt ctccctgcg ttatccctg attctgtggaa	2460
121	taaccgtatt accgcacatgc attagttatt aatagtaatc aattacgggg tcattagttc	2520
123	atagcccata tatggagttc cgcgttacat aactacggt aatggcccg cctggctgac	2580
125	cggccaaacga cccccccca ttgacgtcaa taatgacgag atctgatata ggtgacagac	2640
127	gatatgaggc tatatcgccg atagaggcga catcaagctg gcacatggcc aatgcata	2700
129	gatctataca ttgaatcaat attggcaatt agccatatta gtcattgggt atatagcata	2760
131	aatcaatatt ggctattggc cattgcatac gttgtatcta tatcataata tgtacattta	2820
133	tattggctca tgtccaaat gaccgcatttgc ttgacattga ttattgacta gttatataata	2880
135	gtaatcaatt acggggctat tagttcatag cccatatatg gagttccgcg ttacataact	2940
137	tacggtaat gggccgcctg gctgaccggc caacgacccc cggccatgtg cgtcaatgt	3000
139	gacgtatgtt cccatagtaa cgcacatagg gacttccat tgacgtcaat gggggagta	3060
141	tttacggtaa actgcacact tggcgttaca tcaagtgtat catatgcac gcggccccc	3120
143	tattgacgtc aatgacggta aatggccgc ctggcattat gcccagtaca tgaccttacg	3180
145	ggactttccct acttggcagt acatctacgt attagtcata gctattacca tgggtatgcg	3240
147	gttttggcag tacaccaatg ggcgtggata gcgggttgc tcacggggat ttccaagtct	3300
149	ccaccccat gacgtcaatg ggagttgtt ttggcaccaa aatcaacggg acttccaaa	3360
151	atgtcgtaat aaccccgccc ctggacgca aatggccgtt aggcgtgtac gttggaggt	3420
153	ctatataaggc agagctcggt tagtgaaccc tcagatgcctt tggagacgcc atccacgctg	3480
155	ttttgacctc catagaagac accgggaccc atccacgcctc cgcggccccc aacgggtcat	3540
157	tggAACGCGG attcccggtt ccaagatgtg cgttaagtacc gcctatagac tctataggca	3600
159	caccccttttgc gctcttatgc atgtataact gttttggct tggggccat acaccccccgc	3660
161	ttcccttatgc tataggtat ggtatagctt agcctatagg tgggttgc tgaccattat	3720
163	tgaccactcc cctatgggtt acgataactt ccattactaa tccataacat ggctctttgc	3780
165	cacaactatc tctatggct atatgcacat actctgtcct tcagagactg acacggactc	3840
167	tgtatgttta caggatgggg tcccttattat tattacaaa ttccatata caacaacgcc	3900
169	gtccccctgtt cccgcgttt ttatcaaaca tagcgtggaa tctccacgcg aatctgggtt	3960
171	acgtgttccg gacatgggtt cttctccgtt agcggccggag cttccacatc cgagccctgg	4020
173	tcccatgcct ccagccgcctc atggcgtcctt ggcagctcct tgctctaa agtggaggcc	4080
175	agacttaggc acagcacaat gcccaccacc accagtgtgc cgcacaaggc cgtggcggtt	4140
177	gggtatgtt ctgaaaatga gtcggagat tggctcgca ccgctgacgc agatgaaaga	4200

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001

TIME: 11:42:50

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\12062001\I996128.raw

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183	gttgctgccg	cgcgcgccac	cagacataat	agctgacaga	ctaacagact	gttccttcc	4380
185	atgggtcttt	tctgcagtca	ccgtccacgc	gttaatacga	ctcaactatag	ggagacccaa	4440
187	gctggctagc	gtttaaactt	aagcttggta	ccgagctcgg	atccactagt	ccagtgtgg	4500
189	ggaattccgg	gaagaatgct	cctggctgtt	ttgtactgcc	tgctgtggag	tttccagacc	4560
191	tccgctggcc	atttccttag	agcctgtgtc	tcctctaaga	acctgatgga	gaaggaatgc	4620
193	tgtccaccgt	ggagcgggga	caggagtccc	tgtggccagc	tttcaggcag	aggtcctgt	4680
195	cagaatatcc	ttctgtccaa	tgcaccactt	gggcctcaat	ttcccttcac	aggggtggat	4740
197	gaccgggagt	cgtggcttc	cgtctttat	aataggacct	gccagtgtc	tggcaacttc	4800
199	atgggattca	actgtggaaa	ctgcaagttt	ggctttggg	gaccaaactg	cacagagaga	4860
201	cgactcttgg	tgagaagaaa	catttcgat	ttgagtgcc	cagagaagga	caaattttt	4920
203	gcctacactca	ctttagcaaa	gcataaccatc	agctcagact	atgtcatccc	catagggacc	4980
205	tatggccaaa	tgaaaaatgg	atcaacaccc	atgtttaacg	acatcaatat	ttatgacctc	5040
207	tttgcatttgc	tgcatttata	tgtgtcaatg	gatgcactgc	ttgggggata	tgaatctgg	5100
209	agagacattt	attttgcaca	tgaagcacca	gttttctgc	cttggcatag	actcttcttgc	5160
211	ttgcgggtgg	aacaagaaat	ccagaagctg	acagagatg	aaaacttcac	tattccatat	5220
213	tgggactggc	gggatgcaga	aaagtgtgac	atttgcacag	atgagtacat	gggaggtcag	5280
215	cacccccacaa	atcctaactt	actcagccca	gcatcattct	tctccttgc	gcagattgtc	5340
217	tgtagccgat	tggaggagta	caacagccat	cagtctttat	gcaatggAAC	gcccgggg	5400
219	cctttacggc	gtaatcctgg	aaaccatgac	aaatccagaa	ccccaaaggct	ccccccttca	5460
221	gtgtatgttag	aattttgcct	gagtttgcacc	caatatgaat	ctgggttccat	ggataaagct	5520
223	gccaatttca	gctttagaaa	tacactggaa	ggatttgcata	gtccacttac	tgggatagcg	5580
225	gatgcctctc	aaagcagcat	gcacaatgcc	ttgcacatct	atatgaatgg	aacaatgtcc	5640
227	caggtacagg	gatctgccaa	cgatccttac	ttccttcttc	accatgcatt	tgttgacagt	5700
229	atttttgagc	agtggctccg	aaggcacgt	cctttcaag	aagtttatcc	agaagccaat	5760
231	gcacccattt	gacataaccg	ggaatccctac	atggttccctt	ttataccact	gtacagaaat	5820
233	ggtgatttct	ttatttcatc	caaagatctg	ggctatgact	atagctatct	acaagattca	5880
235	gacccagact	ctttcaaga	ctacattaag	tcctatttgg	aacaagcgag	tcggatctgg	5940
237	tcatggctcc	ttggggcggc	gatggtaggg	gccgtcctca	ctggcctgt	ggcaggcgtt	6000
239	gtgagcttgc	tgtgtcgta	caagagaaaag	cagttccctg	aagaaaagca	gccactcctc	6060
241	atggagaaaag	aggattacca	cagttgtat	cagagccatt	tataaaaggc	ttaggcaata	6120
243	gagttagggcc	aaaaagcctg	acctcactct	aactcaaagt	aatgtccagg	ttcccagaga	6180
245	atatctgctg	gtattttct	gtaaagacca	tttgc当地at	tgttaacctaa	tacaaagtgt	6240
247	agccttcttc	caactcaggt	agaacacacc	tgtcttgc	ttgctgtttt	cactcagccc	6300
249	tttaaacatt	ttcccttaag	cccatatgtc	taaggaaagg	atgttatttgc	taatgagga	6360
251	actgttattt	gtatgtgaat	taaagtgc	ttatttaaa	aaaccggaa		6408

254 &lt;210&gt; SEQ ID NO: 2

255 &lt;211&gt; LENGTH: 6485

256 &lt;212&gt; TYPE: DNA

257 <213> ORGANISM: synthetic construct

Some error

259 &lt;400&gt; SEQUENCE: 2

260	attctgcaga	tatccagcac	agtggcgccc	gtcgagtct	agagggcccg	tttaaaccgg	60
262	ctgatcagcc	tcgactgtgc	cttctagttt	ccagccatct	gttggggcc	cctccccccgt	120
264	gccttccttgc	accctggaa	gtgccactcc	cactgtcctt	tcctaataaa	atgaggaaat	180
266	tgcacatcgat	tgtctgagta	ggtgtcattt	tattctgggg	ggtgggggtgg	ggcaggacag	240
268	caagggggag	gattggaa	acaatagcag	gcatgggg	gatgcaggggg	ggggggggcg	300
270	ctgaggctgc	cctcgtaag	aagggtttgc	tgactcatac	caggcctgaa	tcgccccatc	360
272	atccagccag	aaagtgggg	agccacgggt	gatgagagct	ttgttgc	tggaccagtt	420

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001

TIME: 11:42:50

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\12062001\I996128.raw

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276	ctgatccttc	aactcagcaa	aagttcgatt	tattcaacaa	agccgccc	ccgtcaagtc	540							
278	agcgtaatgc	tctgccagt	ttacaaccaa	ttaaccaatt	ctgattagaa	aaactcatcg	600							
280	agcatcaa	at gaaactgcaa	tttattcata	tcaggattat	caataccata	ttttgaaaa	660							
282	agccgttct	gtaatgaagg	agaaaactca	ccgaggcagt	tccataggat	ggcaagatcc	720							
284	tgttatcggt	ctgcgattcc	gactcgtcca	acatcaatac	aacctattaa	tttccctcg	780							
286	tcaaaaataa	ggttatcaag	tgagaaatca	ccatgagtga	cgactgaatc	cggtgagaat	840							
288	gcaaaaagct	tatgcatttc	tttccagact	tgttcaacag	gccagccatt	acgctcgta	900							
290	tcaaaatcac	tcgcatac	caaaccgtt	ttcattcg	attgcgcctg	agcgagacga	960							
292	aatacgcgt	cgctgtaaa	aggacaatta	caaacaggaa	tcgaatgca	ccggcgcagg	1020							
294	aacactgcca	gcgcatac	aatatttca	cctgaatcg	gatattctc	taatacctgg	1080							
296	aatgctgtt	tcccgggat	cgcagtgg	agtaaccatg	catcatcagg	agtacggata	1140							
298	aaatgcttga	tggtcgaaag	aggcataaaat	tccgtcagcc	agtttagtct	gaccatctca	1200							
300	tctgtacat	cattggcaac	gtaccc	ccatgttca	gaaacaactc	tggcgatcg	1260							
302	ggcttccat	acaatcgata	gattgtcg	cctgattgc	cgacattatc	gcgagccat	1320							
304	ttataccat	ataaaatcagc	atccatgt	gaatttaatc	gcggcctcg	gcaagacgtt	1380							
306	tcccggtt	gaa	tatggctcat	aacaccc	gtattactgt	ttatgtaa	agacagttt	1440						
308	attgttcatg	atgatata	tttatctt	gcaatgtaa	atcagagatt	ttgagacaca	1500							
310	acgtggctt	cccccccccc	cctgcagcgt	ttcttcctt	tcccccaccc	acccccc	1560							
312	tccgggtgaa	ggcccagg	tcgcagccaa	cgtcg	gcaggccctg	ccatagcctc	1620							
314	aggtaactca	tatatactt	agattgattt	aaaacttcat	ttttaattt	aaaggatcta	1680							
316	ggtgaagatc	cttttgcata	atctcatgac	aaaatccct	taacgtgagt	tttcgttcca	1740							
318	ctgagcgtca	gacc	ccgt	aaaagatcaa	aggatettct	tgagatc	ttttctcg	1800						
320	cgtaatctgc	tgcttgcaaa	caaaaaacc	accgctacca	gcgg	gtttccgga	1860							
322	tcaagagct	ccaa	ctt	tccgaaggt	aactggctt	agcagagcgc	agataccaa	1920						
324	tactgttctt	ctagtgtagc	cgtagtt	ccaccactt	aagaactctg	tagcaccg	1980							
326	tacatacctc	gctctgt	caa	tcctgttacc	agtgcgt	gccagtgc	ataagtcgt	2040						
328	tcttaccggg	ttggactcaa	gacgatagg	accgataag	gcgc	aggcggt	cggctgaac	2100						
330	gggggggttcg	tgcacac	ccag	tttgcga	gcga	acgacc	tacacc	2160						
332	acagcgttag	ctatgagaaa	gcccacg	ct	tccc	gaaggg	agaaagg	2220						
334	ggtaagcggc	agggtcg	aa	caggagacg	cac	gagg	cttccagg	2280						
336	gtatctttat	agtcc	gtcg	gtttcg	cctctgactt	gagcgtcg	at	tttgcgtat	2340					
338	ctcgtcagg	ggcgg	gag	cc	tatggaaaa	cgcc	ac	tacggtt	2400					
340	ggc	ttttgc	tgg	cc	tc	acatgtt	cttcc	ttatccc	2460					
342	taaccgtatt	accgc	catgc	attat	ttt	at	tttgcgt	tttgcgtat	2520					
344	atagcccata	tatgg	atgc	cgtt	acttac	aaatgg	cc	cctggctg	2580					
346	cggccaa	cccc	ccca	ttgacgt	caa	taatg	acg	atctgatata	2640					
348	gatatgaggc	tatatgc	ccg	atagagg	gca	catcg	gcacat	ggcc	aatgcata	2700				
350	gatctataca	ttgaat	caat	attgg	caatt	gtcatt	tttgcgt	tttgcgt	atata	2760				
352	aatcaatatt	ggctt	attgg	gc	catt	ttgtat	tatcata	ata	tgtacattt	2820				
354	tattggctca	tgt	ccaa	tat	gacc	ttgacatt	ttat	tgacta	tttata	2880				
356	gtaatcaatt	acgg	gtcat	tagt	ccat	at	gat	ttcc	ttacata	2940				
358	tacggtaat	ggcc	ccctg	gtcg	acc	caac	gac	cccatt	cgtaat	3000				
360	gacgtatgtt	ccc	atag	taa	cgca	atagg	gactt	ccat	tgacgt	3060				
362	tttacggtaa	actg	ccc	act	ttgg	cgtaca	tca	agtgt	at	catatgc	3120			
364	tattgacgtc	aatg	acgg	gt	atgg	ccgc	ctgg	cattat	gccc	agtaca	3180			
366	ggacttcc	actt	ggc	agt	acat	tctac	att	gtc	attac	ca	ttgtat	3240		
368	gttttggcag	tacac	caat	g	gcgt	ggata	gcgg	tttgc	gac	tcac	ggggat	3300		
370	ccaccc	catt	gacgt	caat	g	gagttt	ttgg	cacca	aa	aat	caac	ggg	acttcc	3360

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001  
TIME: 11:42:50

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF3\12062001\I996128.raw

372	atgtcgtaat	aaccccgccc	cgttgcgcga	aatgggcgg	aggcgtgtac	ggtgggaggt	3420
374	ctatataaggc	agagctcggt	tagtgaacccg	tcagatcgcc	tggagacgcc	atccacgcgt	3480
376	ttttgacctc	catagaagac	accgggacccg	atccagccctc	cgcggccggg	aacgggtgc	3540
378	tggaacgcgg	atccccgtg	ccaagagtga	cgtaagtacc	gcctataagac	tctataggca	3600
380	cacccctttg	gctcttatgc	atgctatact	gttttggct	tggggcctat	acaccccccgc	3660
382	ttccttatgc	tataggtgat	ggtatagctt	agcctatagg	tgtgggttat	tgaccattat	3720
384	tgaccactcc	cctattgggt	acgataacttt	ccattactaa	tccataacat	ggctcttgc	3780
386	cacaactata	tctatggct	atatgccaat	actctgtcct	tcagagactg	acacggactc	3840
388	tgtatTTTA	caggatgggg	tcccatttat	tatttacaaa	ttcacatata	caacaacgcc	3900
390	gtcccccggt	cccgcagttt	ttattaaaca	tagcgtggga	tctccacgcg	aatctcggt	3960
392	acgtgttccg	gacatggct	cttctccgg	agcggcggag	cttccacatc	cgagccctgg	4020
394	tcccatgcct	ccagcggctc	atggtcgctc	ggcagctcct	tgctccta	agtggaggcc	4080
396	agacttaggc	acagcacaat	gccaccacc	accagtgtgc	cgcacaaggc	cgtggcggta	4140
398	gggtatgtgt	ctgaaaatga	gctcggagat	tgggtcgca	ccgctgacgc	agatggaaga	4200
400	cttaaggcag	cggcagaaga	agatgcagc	agctgagttg	ttgtattctg	ataagagtca	4260
402	gaggtaactc	ccgttgcgg	gctgttaacg	gtggagggca	gtgtagtc	agcagtactc	4320
404	gttgcgtccg	cgcgcgccac	cagacataat	agctgacaga	ctaacagact	gttcccttcc	4380
406	atgggtcttt	tctgcagtca	cgcgtccacgc	gttaatacga	ctcaactatag	ggagacccaa	4440
408	gctggctagc	gtttaaactt	aagcttggta	ccgagctcg	atccactatgt	ccagtgtgg	4500
410	ggaattctgt	gacactcatt	aacctattgg	tgcagattt	gtatgatct	aaggagaaaa	4560
412	tgttcttggc	tgtttgtat	tgccttctgt	ggagttcca	gatctctgt	ggcattttc	4620
414	ctcgagcctg	tgcctcctct	aagaacttgc	tggcaaaaga	atgctgccc	ccatggatgg	4680
416	gtgatggag	tccctgcggc	cagtttca	gcagagg	ctgcccagat	atccttctgt	4740
418	ccagtgcacc	atctgaccc	cagttccct	tcaaagg	ggatgaccgt	gagtcctggc	4800
420	cctctgtgtt	ttataatagg	acctgc	gctcagg	cttcatgg	ttcaactgc	4860
422	gaaactgtaa	gtttggattt	ggggggccaa	attgtacaga	gaagcgagtc	ttgattagaa	4920
424	gaaacatttt	tgatttgagt	gtctccaaa	agaataagg	ctttcttac	ctcaactttag	4980
426	caaaacatac	tatcagctca	gtctatgtca	tccccacagg	cacctatgc	caaata	5040
428	atgggtcaac	accatgttt	aatgatatac	acatctacga	cctcttgc	tggatgcatt	5100
430	actatgtgtc	aaggacaca	ctgcttgggg	gctctgaaat	atggagg	attgatTTG	5160
432	cccatgaagc	accagggttt	ctgccttgc	acagacttt	cttgttattg	tggaaacaag	5220
434	aaattcggaa	actaactggg	gatgagaact	tcactgtcc	atactggat	tggagagatg	5280
436	cagaaaactg	tgacatttgc	acagatgaa	acttgggagg	tcgtcaccc	gaaaatccta	5340
438	acttactcag	cccagcattc	ttcttctct	cctggcagat	catttgtagc	agatcagaag	5400
440	agtataatag	ccatcagg	ttatgcgt	gaacacctg	gggaccacta	ttacgtatc	5460
442	ctggaaacca	tgacaaagcc	aaaacccca	ggctccatc	ttcagcagat	gtggatTTT	5520
444	gtctgagttt	gaccagtt	aatctggat	caatggat	aactgccaat	ttcagcttta	5580
446	gaaacacact	ggaaggattt	gccagtcac	tcacaggat	agcagatcct	tctcaaagta	5640
448	gcatgcacaa	tgccttacat	atctttatg	atgaaacaat	gtcccaagta	caggatcg	5700
450	ccaaacgatcc	catttttctt	cttcaccat	ctttgtgg	cagtatttt	gaacaatggc	5760
452	tgcgaaggca	ccgccttctt	ttggaaagttt	accagaac	caatgcac	atcgccata	5820
454	acagagactc	ttacatgg	ccttcatac	cgctctata	aatggt	ttcttcataa	5880
456	catccaagg	tctggat	gactacat	acctccaaga	gtcagatcc	ggcttttaca	5940
458	gaaattat	tgagcattac	ttggaaacaag	ccagtcgtat	ctggccatgg	cttcttgggg	6000
460	cagcactgg	gggagctgtt	attgtcg	ctctctct	gcttagc	aggctatgc	6060
462	ttcagaagaa	gaagaagaag	aagcaaccc	aggaggaaag	gcagccactc	ctcatggaca	6120
464	aagacgacta	ccacagctt	ctgtatcaga	gccatctgt	aacatcctag	gaaacagagt	6180
466	gggactgaaa	ggtttac	cactcgac	atttgcgt	gtttctacaa	atttacacta	6240
468	gtataaaaca	tagaccat	ctgttgcgt	tttttcaga	cccatgttt	ttcctaagtc	6300

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/996,128

DATE: 12/06/2001

TIME: 11:42:51

Input Set : A:\sequence listing.txt

Output Set: N:\CRF3\12062001\I996128.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date